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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/552,995	10/13/2005	Katsumi Sato	279560US2PCT	5853

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EXAMINER
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IMAS, VLADIMIR

ART UNIT	PAPER NUMBER
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2839

DATE MAILED: 07/07/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No. 10/552,995	Applicant(s) SATO ET AL.	
	Examiner Vladimir Imas	Art Unit 2839	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133)
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-18 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 14 November 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \*    c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |                                                                                                                                   |                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                                       | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                              | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____.                                                |

## DETAILED ACTION

### *Claim Rejections - 35 USC § 102*

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-18 are rejected under 35 U.S.C. 102(b) as being anticipated by Naoi (US 6,168,442).

Regarding claim 1, Naoi, fig. 1-11, discloses an anisotropically conductive connector comprising an elastic anisotropically conductive film 11 having a plurality of conductive parts 12 for connection arranged in accordance with a pattern corresponding to electrodes 20D to be connected and extending in a thickness-wise direction of the film and an insulating part 43 mutually insulating these wherein a conductive parts for connection, conductive part for high-frequency shielding extending in the thickness-wise direction is formed in the elastic anisotropically conductive film.

Regarding claim 2, Naoi discloses an anisotropically conductive connector comprising an elastic anisotropically conductive film having a plurality of conductive parts for connection arranged in accordance with a pattern corresponding to electrodes to be connected and extending in a thickness-wise direction of the film and an insulating part mutually insulating these conductive parts for connection, wherein conductive parts for high-frequency shielding arranged so as to surround the each of conductive parts for

connection and extending in the thickness-wise direction are formed in the elastic anisotropically conductive film.

Regarding claim 3, Naoi discloses an anisotropically conductive connector comprising an elastic anisotropically conductive film having a plurality of conductive parts for connection arranged in accordance with a pattern corresponding to electrodes to be connected and extending in a thickness-wise direction of the film and an insulating part mutually insulating these conductive parts for connection, wherein a conductive part for high-frequency shielding arranged so as surround a group of conductive parts including the plurality of the conductive parts for connection and extending in the thickness-wise direction is formed in the elastic anisotropically conductive film.

Regarding claim 4, Naoi discloses an anisotropically conductive connector comprising: a frame plate 16 having conductivity, in which plurality of openings 16a have been formed in accordance with a pattern corresponding to electrodes to be connected, and an elastic anisotropically conductive film composed plurality of functional parts arranged in the respective openings of the frame plate and composed of conductive part for connection extending in thickness-wise direction of the film and an insulating part formed integrally with the periphery of the conductive part, and part to be supported, which is formed integrally with the peripheries of the functional parts and fixed to the frame plate by being laminated on the frame plate, wherein conductive parts for high-frequency shielding arranged so as to surround the each of conductive parts for connection, electrically connected to the frame plate and extending in the thickness-wise direction are formed in the part to be supported in the elastic anisotropically

conductive film.

Regarding claim 5, Naoi discloses an anisotropically conductive connector comprising: frame plate having conductivity, in which an opening extending through a thickness-wise direction has been formed, and an elastic anisotropically conductive film arranged in the opening of the frame plate and composed of a functional part having a plurality of conductive parts for connection arranged in accordance with a pattern corresponding to electrodes to be connected and extending the thickness-wise direction and an insulating part mutually insulating the conductive parts for connection, and a part to be supported, which is formed integrally with the periphery of the functional part and fixed to the frame plate by being laminated on the frame plate, wherein conductive part high-frequency shielding arranged so as to surround a group of conductive parts including the plurality of the conductive parts for connection, electrically connected to the frame plate and extending in the thickness-wise direction formed in the part to be supported in the elastic anisotropically conductive film.

Regarding claim 6, Naoi discloses an anisotropically conductive connector comprising: frame plate having conductivity, in which a plurality of openings have been formed in accordance with a pattern corresponding electrodes to be connected, and an elastic anisotropically conductive film composed of a plurality of functional parts arranged in the respective openings of the frame plate and composed of a conductive part for connection extending in a thickness-wise direction of the film and an insulating part formed integrally with the periphery of the conductive part, and a part to be supported, which is formed integrally with the peripheries of the functional parts and

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fixed to the frame plate by being laminated on the frame plate, wherein a conductive part for high-frequency shielding arranged so as to surround a group of conductive parts including the plurality of the conductive parts for connection, electrically connected to the frame plate and extending in the thickness-wise direction is formed in the part to be supported in the elastic anisotropically conductive film.

Regarding claim 7, Naoi discloses the cylindrical conductive part 12 for high frequency shielding, wherein the cylindrical conductive part for high-frequency shielding is arranged by being located concentrically with one conductive part for connection so as to surround the respective conductive parts for connection.

Regarding claim 8, Naoi discloses a plurality of conductive parts for high frequency shielding for surrounding the same conductive part for connection.

Regarding claim 9, Naoi discloses a clearance distance between conductive parts for high frequency shielding adjoining each other, which surround the same conductive part for connection, is at most  $1/10$  of a wavelength of a measurement signal.

Regarding claim 10, Naoi discloses one or more conductive parts for non connection are formed in addition to the conductive parts for connection in the elastic anisotropically conductive film, and the conductive parts for high-frequency shielding are arranged so as to surround a group conductive parts including the plurality the conductive parts for connection and one or more conductive parts for non-connection.

Regarding claim 11, Naoi discloses a cylindrical conductive part for high

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frequency shielding, wherein the cylindrical conductive part for high-frequency shielding is arranged so as to surround the group of conductive parts including the plurality of the conductive parts for connection.

Regarding claim 12, Naoi discloses a plurality of conductive parts for high-frequency shielding surrounding the group of conductive parts including the plurality of the conductive parts for connection.

Regarding claim 13, Naoi discloses a clearance distance between conductive parts for high-frequency shielding adjoining each other, which surround the group of conductive parts, is at most  $1/10$  of a wavelength of a measurement signal.

Regarding claim 14, Naoi discloses the conductive parts for high-frequency shielding are connected to a ground.

Regarding claim 15, Naoi discloses the frame plate is connected to a ground.

Regarding claim 16, Naoi discloses an electrical inspection apparatus for circuit devices 23, which comprises the anisotropically conductive connector.

Regarding claim 17, Naoi discloses an electrical inspection apparatus for circuit devices, which comprises a circuit board 24 for inspection, on which inspection electrodes 24D have been formed in accordance with a pattern corresponding to electrodes to be inspected of a circuit device, which is an object of inspection, and the anisotropically conductive connector, which is arranged on the circuit board for inspection, wherein in the circuit board for inspection, grounding electrodes connected to a ground are formed in accordance with a pattern corresponding to the conductive parts for high-frequency shielding in the anisotropically

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conductive connector.

Regarding claim 18, Naoi discloses an electrical inspection apparatus for circuit devices, which comprises a circuit board for inspection, on which inspection electrodes have been formed in accordance with a pattern corresponding to electrodes to be inspected of a circuit device, which is an object of inspection, and the anisotropically conductive connector, which is arranged on the circuit board for inspection, wherein the frame plate in the anisotropically conductive connector is connected to a ground.

### ***Conclusion***

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vladimir Imas whose telephone number is 571-272-8288. The examiner can normally be reached on 8:00 a.m. to 5:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, T. Patel can be reached on 571-272-2098. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.



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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

VI

Examiner  
Vladimir Imas  
6/20/2006



**TULSIDAS C. PATEL**  
**SUPERVISORY PATENT EXAMINER**